



SEQUENCE LISTING

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<120> RELAXIN3-GPCR135 COMPLEXES AND THEIR PRODUCTION AND USE

<130> PRD2045NP-US

<140> US 10/786,478

<141> 2004-02-25

<150> US 60/451,702

<151> 2003-03-04

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<170> PatentIn version 3.3

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35 40 45

Trp Trp Glu Leu Gly Leu Gly Leu Pro Asp Gly Ala Pro Pro Gly His
50 55 60

Pro Pro Gly Ser Gly Gly Ala Glu Ser Ala Asp Thr Glu Ala Arg Val
65 70 75 80

Arg Ile Leu Ile Ser Val Val Tyr Trp Val Val Cys Ala Leu Gly Leu
85 90 95

Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Met Gln Gly Trp
100 105 110

Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
115 120 125

Phe Gln Phe Val Leu Thr Leu Pro Phe Trp Ala Val Glu Asn Ala Leu
130 135 140

Asp Phe Lys Trp Pro Phe Gly Lys Ala Met Cys Lys Ile Val Ser Met
145 150 155 160

Val Thr Ser Met Asn Met Tyr Ala Ser Val Phe Phe Leu Thr Ala Met
165 170 175

Ser Val Thr Arg Tyr His Ser Val Ala Ser Ala Leu Lys Ser His Arg
180 185 190

Thr Arg Gly His Gly Arg Gly Asp Cys Cys Gly Arg Ser Leu Gly Asp
195 200 205

Ser Cys Cys Phe Ser Ala Lys Ala Leu Cys Val Trp Ile Trp Ala Leu
210 215 220

Ala Ala Leu Ala Ser Leu Pro Ser Ala Ile Phe Ser Thr Thr Val Lys
225 230 235 240

Val Met Gly Glu Glu Leu Cys Leu Val Arg Phe Pro Asp Lys Leu Leu
245 250 255

Gly Arg Asp Arg Gln Phe Trp Leu Gly Leu Tyr His Ser Gln Lys Val
260 265 270

Leu Leu Gly Phe Val Leu Pro Leu Gly Ile Ile Ile Leu Cys Tyr Leu
275 280 285

Leu Leu Val Arg Phe Ile Ala Asp Arg Arg Ala Ala Gly Thr Lys Gly
290 295 300

Gly Ala Ala Val Ala Gly Gly Arg Pro Thr Gly Ala Ser Ala Arg Arg
305 310 315 320

Leu Ser Lys Val Thr Lys Ser Val Thr Ile Val Val Leu Ser Phe Phe
325 330 335

Leu Cys Trp Leu Pro Asn Gln Ala Leu Thr Thr Trp Ser Ile Leu Ile
340 345 350

Lys Phe Asn Ala Val Pro Phe Ser Gln Glu Tyr Phe Leu Cys Gln Val
355 360 365

Tyr Ala Phe Pro Val Ser Val Cys Leu Ala His Ser Asn Ser Cys Leu
370 375 380

Asn Pro Val Leu Tyr Cys Leu Val Arg Arg Glu Phe Arg Lys Ala Leu
385 390 395 400

Lys Ser Leu Leu Arg Arg Ile Ala Ser Pro Ser Ile Thr Ser Met Arg
405 410 415

Pro Phe Thr Ala Thr Thr Lys Pro Glu His Glu Asp Gln Gly Leu Gln
420 425 430

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Ser Ser Ser Ala Tyr
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<213> Mouse

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35 40 45

Trp Trp Glu Leu Gly Leu Glu Leu Pro Asp Gly Ala Ala Pro Gly His
50 55 60

Pro Pro Gly Gly Gly Gly Ala Glu Ser Thr Asp Thr Glu Ala Arg Val
65 70 75 80

Arg Ile Leu Ile Ser Ala Val Tyr Trp Val Val Cys Ala Leu Gly Leu
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Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Lys Gln Gly Trp
100 105 110

Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
115 120 125

Phe Gln Phe Val Leu Thr Leu Pro Phe Trp Ala Val Glu Asn Ala Leu
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Asp Phe Lys Trp Pro Phe Gly Lys Ala Met Cys Lys Ile Val Ser Met
145 150 155 160

Val Thr Ser Met Asn Met Tyr Ala Ser Val Phe Phe Leu Thr Ala Met
165 170 175

Ser Val Ala Arg Tyr His Ser Val Ala Ser Ala Leu Lys Ser His Arg
180 185 190

Thr Arg Gly Arg Gly Arg Gly Asp Cys Cys Gly Gln Ser Leu Arg Glu
195 200 205

Ser Cys Cys Phe Ser Ala Lys Val Leu Cys Gly Leu Ile Trp Ala Ser
210 215 220

Ala Ala Leu Ala Ser Leu Pro Asn Ala Ile Phe Ser Thr Thr Ile Arg
225 230 235 240

Val Leu Gly Glu Glu Leu Cys Leu Met His Phe Pro Asp Lys Leu Leu
245 250 255

Gly Trp Asp Arg Gln Phe Trp Leu Gly Leu Tyr His Leu Gln Lys Val
260 265 270

Leu Leu Gly Phe Leu Leu Pro Leu Ser Ile Ile Ser Leu Cys Tyr Leu
275 280 285

Leu Leu Val Arg Phe Ile Ser Asp Arg Arg Val Val Gly Thr Thr Asp
290 295 300

Ala Val Gly Ala Ala Ala Ala Pro Gly Gly Gly Leu Ser Thr Ala Ser
305 310 315 320

Ala Arg Arg Arg Ser Lys Val Thr Lys Ser Val Thr Ile Val Val Leu
325 330 335

Ser Phe Phe Leu Cys Trp Leu Pro Asn Gln Ala Leu Thr Thr Trp Ser
340 345 350

Ile Leu Ile Lys Phe Asn Ala Val Pro Phe Ser Gln Glu Tyr Phe Gln
355 360 365

Cys Gln Val Tyr Ala Phe Pro Val Ser Val Cys Leu Ala His Ser Asn
370 375 380

Ser Cys Leu Asn Pro Ile Leu Tyr Cys Leu Val Arg Arg Glu Phe Arg
385 390 395 400

Lys Ala Leu Lys Asn Leu Leu Trp Arg Ile Ala Ser Pro Ser Leu Thr
405 410 415

Asn Met Arg Pro Phe Thr Ala Thr Thr Lys Pro Glu Pro Glu Asp His
420 425 430

Gly Leu Gln Ala Leu Ala Pro Leu Asn Ala Ala Ala Glu Pro Asp Leu
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Leu Leu Pro Ser Ser Ser Ala Tyr
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<213> Rat

<400> 14

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35 40 45

Ser Leu Gln Leu Gln Asp Leu Trp Trp Glu Leu Gly Leu Glu Leu Pro
50 55 60

Asp Gly Ala Ala Pro Gly His Pro Pro Gly Ser Gly Gly Ala Glu Ser
65 70 75 80

Ala Asp Thr Glu Ala Arg Val Arg Ile Leu Ile Ser Ala Val Tyr Trp
85 90 95

Val Val Cys Ala Leu Gly Leu Ala Gly Asn Leu Leu Val Leu Tyr Leu
100 105 110

Met Lys Ser Lys Gln Gly Arg Arg Lys Ser Ser Ile Asn Leu Phe Val
115 120 125

Thr Asn Leu Ala Leu Thr Asp Phe Gln Phe Val Leu Thr Leu Pro Phe
130 135 140

Trp Ala Val Glu Asn Ala Leu Asp Phe Lys Trp Pro Phe Gly Lys Ala
145 150 155 160

Met Cys Lys Ile Val Ser Met Val Thr Ser Met Asn Met Tyr Ala Ser
165 170 175

Val Phe Phe Leu Thr Ala Met Ser Val Ala Arg Tyr His Ser Val Ala
180 185 190

Ser Ala Leu Lys Ser His Arg Thr Arg Gly His Gly Arg Gly Asp Cys
195 200 205

Cys Gly Gln Ser Leu Gly Glu Ser Cys Cys Phe Ser Ala Lys Val Leu
 210 215 220
 Cys Gly Leu Ile Trp Ala Ser Ala Ala Ile Ala Ser Leu Pro Asn Val
 225 230 235 240
 Ile Phe Ser Thr Thr Ile Asn Val Leu Gly Glu Glu Leu Cys Leu Met
 245 250 255
 His Phe Pro Asp Lys Leu Leu Gly Trp Asp Arg Gln Phe Trp Leu Gly
 260 265 270
 Leu Tyr His Leu Gln Lys Val Leu Leu Gly Phe Leu Leu Pro Leu Ser
 275 280 285
 Ile Ile Ser Leu Cys Tyr Leu Leu Leu Val Arg Phe Ile Ser Asp Arg
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 Arg Val Val Gly Thr Thr Asp Gly Ala Thr Ala Pro Gly Gly Ser Leu
 305 310 315 320
 Ser Thr Ala Gly Ala Arg Arg Arg Ser Lys Val Thr Lys Ser Val Thr
 325 330 335
 Ile Val Val Leu Ser Phe Phe Leu Cys Trp Leu Pro Asn Gln Ala Leu
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 Thr Thr Trp Ser Ile Leu Ile Lys Phe Asn Val Val Pro Phe Ser Gln
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 Glu Tyr Phe Gln Cys Gln Val Tyr Ala Phe Pro Val Ser Val Cys Leu
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 Ala His Ser Asn Ser Cys Leu Asn Pro Ile Leu Tyr Cys Leu Val Arg
 385 390 395 400
 Arg Glu Phe Arg Lys Ala Leu Lys Asn Leu Leu Trp Arg Ile Ala Ser
 405 410 415
 Pro Ser Leu Thr Ser Met Arg Pro Phe Thr Ala Thr Thr Lys Pro Glu
 420 425 430
 Pro Glu Asp His Gly Leu Gln Ala Leu Ala Pro Leu Asn Ala Thr Ala
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Gly Arg Tyr Asp Leu Leu Pro Ser Ser Ser Ala Tyr
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<210> 15
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<400> 15

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Trp Trp Glu Leu Gly Leu Glu Leu Pro Asp Gly Ala Ala Pro Gly His
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Pro Pro Gly Ser Gly Gly Ala Glu Ser Ala Asp Thr Glu Ala Arg Val
65 70 75 80

Arg Ile Leu Ile Ser Ala Val Tyr Trp Val Val Cys Ala Leu Gly Leu
85 90 95

Ala Gly Asn Leu Leu Val Leu Tyr Leu Met Lys Ser Lys Gln Gly Trp
100 105 110

Arg Lys Ser Ser Ile Asn Leu Phe Val Thr Asn Leu Ala Leu Thr Asp
115 120 125

Phe Gln Phe Val Leu Thr Leu Pro Phe Trp Ala Val Glu Asn Ala Leu
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Asp Phe Lys Trp Pro Phe Gly Lys Ala Met Cys Lys Ile Val Ser Met
145 150 155 160

Val Thr Ser Met Asn Met Tyr Ala Ser Val Phe Phe Leu Thr Ala Met
165 170 175

Ser Val Ala Arg Tyr His Ser Val Ala Ser Ala Leu Lys Ser His Arg
180 185 190

Thr Arg Gly His Gly Arg Gly Asp Cys Cys Gly Gln Ser Leu Gly Glu
195 200 205

Ser Cys Cys Phe Ser Ala Lys Val Leu Cys Gly Leu Ile Trp Ala Ser
Page 12

210 215 220
 Ala Ala Ile Ala Ser Leu Pro Asn Val Ile Phe Ser Thr Thr Ile Asn
 225 230 235 240
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 260 265 270
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 275 280 285
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 290 295 300
 Gly Ala Thr Ala Pro Gly Gly Ser Leu Ser Thr Ala Gly Ala Arg Arg
 305 310 315 320
 Arg Ser Lys Val Thr Lys Ser Val Thr Ile Val Val Leu Ser Phe Phe
 325 330 335
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 405 410 415
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Val Ile Phe

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